

WHAT IS CLAIMED IS:

1. A magnetic tape device comprising:

a pair of right and left guide plates;

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a tape cassette moving table that is placed to be movable forward and backward between a cassette inserting position and a cassette placing position that are set between said pair of right and left guide plates;

a rocking lever pivotally attached to one of said guide plates;

a guide rod protruding from said moving table which is engaged with a recessed groove formed in a tip end portion of said rocking lever;

a press spring engagingly held by said rocking lever and pressed against said guide rod;

a cam formed in said recessed groove of said rocking lever; and

a driving source

wherein said moving table is slightly pushed-in in a backward motion direction by inserting a tape cassette to said moving table that is on standby at the cassette inserting position, and said driving source is activated in response to detection of the pushing, thereby backward swinging said rocking lever, and backward moving said moving table via said guide rod to the cassette placing position; and

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wherein when said moving table is pushed-in from the cassette inserting position in the backward motion direction, said guide rod is transferred onto said cam to increase a pressing force of said press spring.

2. A magnetic tape device, comprising:

a pair of right and left guide plates;

a tape cassette moving table that is placed to be movable forward and backward between a cassette inserting position and a cassette placing position that are set between said pair of right and left guide plates, said moving table being slightly pushed-in in a backward motion direction by inserting a tape cassette to said moving table that is on standby at the cassette inserting position;

a driving source activated in response to detection of the pushing, to backward moving said moving table to the cassette placing position; and

a return preventing member operating when said moving table is pushed from the cassette inserting position in the backward motion direction, for preventing said moving table from being pushed back in a forward motion direction is disposed.

3. The magnetic tape device according to claim 2, further comprising: a guide rod protrudes from said moving table;

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a rocking lever pivotally attached to one of said guide plates, a recessed groove formed in a tip end portion of said rocking lever being engaged with said guide rod;

a press spring engagingly held by said rocking lever, and pressed against said guide rod; and

a cam engaged with said press spring;

wherein said return preventing member is configured by said cam, and when said moving table is pushed-in from the cassette inserting position in the backward motion direction, a pressing force of said press spring is increased by said cam to prevent said moving table from being pushed back in the forward motion direction.

4. The magnetic tape device according to claim 3, wherein said cam is formed in said recessed groove of said rocking lever, and when said moving table is pushed-in from the cassette inserting position in the backward motion direction, said guide rod is transferred onto said cam to increase the pressing force of said press spring.